

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 2  
47-40 21st Street, Long Island City, NY 11101  
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[www.dec.ny.gov](http://www.dec.ny.gov)

October 4, 2019

Ms. Pamela Elardo  
NYC Dept. of Environmental Protection  
Bureau of Wastewater Treatment  
96-05 Horace Harding Expy. Fl. 2  
Corona, NY 11368

**Re: Title V Facility Permit Renewal 2, DEC ID 2-6101-00025/00057**  
NEWTOWN CREEK WASTEWATER TREATMENT FACILITY  
329-69 GREENPOINT AVENUE  
BROOKLYN, NY 11222

Dear Ms. Elardo:

Enclosed is your Title V Facility Permit Renewal 2 for the facility referenced above. This permit is effective 10/2/2019 and expires 10/01/2024. Please read it carefully given you must comply with all conditions.

If you have technical questions on the Permit, please contact Paresh Shah in the NYSDEC Division of Air Resources at (718) 482-4862 or me at (718) 482-4062 for administrative questions.

Please acknowledge receipt of the Permit via email at [denise.grattan@dec.ny.gov](mailto:denise.grattan@dec.ny.gov) or by phone at the above number.

Sincerely,



Denise Grattan  
Environmental Analyst II  
Division of Environmental Permits

ecc: NYCDEP – W. Kuang, D. Katehis  
DAR R2 - S. Lieblich, T. John, P. Shah  
DAR CO – M. Cronin, C. Rogers.  
RPA/File  
NJDEP – D. Wong  
CTDEP – J. Sinclair  
NYCDEP – K. Liang  
USEPA Region 2 – S. Chan, V. Petriman



Department of  
Environmental  
Conservation

Facility DEC ID: 2610100025

**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6101-00025/00057  
Effective Date: 10/02/2019 Expiration Date: 10/01/2024

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION  
96-05 HORACE HARDING EXPY FL 5  
CORONA, NY 11368

Contact: PAMELA ELARDO  
NYCDEP BWT  
96-05 HORACE HARDING EXPY FL 2  
CORONA, NY 11368  
(718) 595-6924

Facility: NEWTOWN CREEK WASTEWATER TREATMENT PLANT  
329-69 GREENPOINT AVE  
BROOKLYN, NY 11222

Contact: DIMITRIOS KATEHIS  
NYC DEP / BWT  
96-05 HORACE HARDING EXPY FL 2  
FLUSHING, NY 11368  
(718) 595-5194

Description:

Newtown Creek WPCP is a 310 million gallon per day (mgd) publicly owned secondary wastewater treatment plant. The standard industrial classification code is 4952-Sewerage Systems.

The plant is using purchased electricity. This facility is categorized into seven (7) Emission Units i.e.: 1-BLERS, 2-WWTRE, 3-NSLUD, 4-RESID, 5-MISCS, 6-FLARE and 7-GTURB.

Newtown Creek WPCP is a major air pollution facility since it emits Nitrogen Oxide (NOx) in excess of the 25 tons per year (TPY) NOx major source threshold (see the definition section of 6NYCRR Part 231-2). Volatile Organic Compounds (VOC) are being emitted in amounts that are less than the major source threshold. The upgrade of the facility involves the construction of new air pollution sources that constitute a significant source project. A significant source causes Maximum Annual Potential Emissions or MAP (of any of the major pollutants: NOx, CO, VOC or Particulate Matters) that exceed the existing facility's MAP for the corresponding major pollutant or pollutants.

NYCDEP, as owner and operator of the Newtown Creek WPCP has conducted a New Source Review (NSR) Applicability Determination for NOx. 6NYCRR Part 231-2 (NSR) and its air pollutant control requirements such as LAER (Lowest Achievable Emission Rate) could apply to the new project being constructed at Newtown Creek WPCP if the net emission increase (NEI) for any major pollutant exceeds the Significant Source Project Net Emission Increase Threshold (SNEIT) for the major pollutant. In the case of NOx the Net Emission Source Increase was 23.2

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TPY, which is below the NOx SNEIT of 25 TPY.

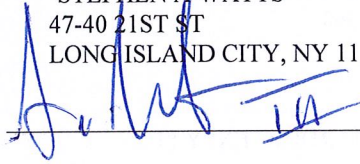
For compliance with NSR, the facility wide NOx emission will be capped at 45.1 tons per year and the VOC emission rate will be less than 25 tons per year.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator:

STEPHEN A WATTS  
47-40 21ST ST  
LONG ISLAND CITY, NY 11101-5401

Authorized Signature:



Date: 10 / 02 / 2019

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**Notification of Other State Permittee Obligations****Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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**DEC GENERAL CONDITIONS**

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- 5 4 Permit modifications, suspensions or revocations by the Department

**Facility Level**

- 5 5 Submission of application for permit modification or renewal -  
REGION 2 HEADQUARTERS

Facility DEC ID: 2610100025

**DEC GENERAL CONDITIONS****\*\*\*\* General Provisions \*\*\*\***

**For the purpose of your Title V permit, the following section contains  
state-only enforceable terms and conditions.**

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**

**Applicable State Requirement: ECL 3-0301 (2) (m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

**Item 3.3**

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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**Condition 4: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Item 4.1:**

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
 NYSDEC Regional Permit Administrator  
 Region 2 Headquarters  
 Division of Environmental Permits  
 1 Hunters Point Plaza, 4740 21st Street  
 Long Island City, NY 11101-5407  
 (718) 482-4997

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**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION  
96-05 HORACE HARDING EXPY FL 5  
CORONA, NY 11368

Facility: NEWTOWN CREEK WASTEWATER TREATMENT PLANT  
329-69 GREENPOINT AVE  
BROOKLYN, NY 11222

Authorized Activity By Standard Industrial Classification Code:  
4952 - SEWERAGE SYSTEMS  
9511 - AIR, WATER & SOLID WASTE MANAGEMENT

Permit Effective Date: 10/02/2019

Permit Expiration Date: 10/01/2024



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**EU=1-BLERS**

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**EU=1-BLERS,Proc=BLR**

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43 39 6 NYCRR 227-2.4 (d): Compliance Certification

**EU=6-FLARE**

44 \*40 6 NYCRR Subpart 201-7: Capping Monitoring Condition

45 41 6 NYCRR 227-1.3 (a): Compliance Certification

46 42 6 NYCRR 227-2.4 (g): Compliance Certification

**EU=7-GTURB**

47 \*43 6 NYCRR Subpart 201-7: Capping Monitoring Condition

49 44 6 NYCRR 227-1.3 (a): Compliance Certification

50 45 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification

**EU=7-GTURB,Proc=ENG**

50 46 6 NYCRR 227.2 (b) (1): Compliance Certification

**EU=7-GTURB,Proc=TRB**

51 47 6 NYCRR 227-2.4 (e) (1): Compliance Certification

52 48 6 NYCRR 227.2 (b) (1): Compliance Certification

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55 49 ECL 19-0301: Contaminant List

55 50 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

56 51 6 NYCRR 211.1: Air pollution prohibited

56 52 6 NYCRR Subpart 257-10: Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.

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**FEDERALLY ENFORCEABLE CONDITIONS****\*\*\*\* Facility Level \*\*\*\*****NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

- Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**  
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**  
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**  
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**  
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**  
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR**

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**201-6.4 (a) (5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)**

This permit does not convey any property rights of any sort or any exclusive privilege.

**Item H: Severability - 6 NYCRR 201-6.4 (a) (9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item I: Permit Shield - 6 NYCRR 201-6.4 (g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

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**Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item K: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and

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Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.**

**Condition 1: Acceptable Ambient Air Quality  
Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 200.6****Item 1.1:**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Condition 2: Fees  
Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (7)****Item 2.1:**

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring  
Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 201-6.4 (c)**

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**Item 3.1:**

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

**Condition 4:      Records of Monitoring, Sampling, and Measurement**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (2)**

**Item 4.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 5:      Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)**

**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of

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every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks



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to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 6: Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)**

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

## Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

## i. Compliance certifications shall contain:

- the identification of each term or condition of the permit that is the basis of the certification;
- the compliance status;
- whether compliance was continuous or intermittent;
- the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
- such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

## iii. Compliance certifications shall be submitted annually.

Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Air Compliance Branch  
USEPA Region 2 DECA/ACB  
290 Broadway, 21st Floor  
New York, NY 10007

The address for the RAPCE is as follows:

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Regional Air Pollution Control Engineer  
Hunters Point Plaza  
47-40 21st Street  
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC  
Bureau of Quality Assurance  
625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2020.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR 202-2.1**

**Item 7.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR 202-2.5**

**Item 8.1:**

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission

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statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 9: Open Fires - Prohibitions**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 215.2**

**Item 9.1:**

Except as allowed by Title 6 NYCRR Section 215.3, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item 9.2**

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

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(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.  
[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

**Condition 10: Maintenance of Equipment**  
Effective between the dates of 10/02/2019 and 10/01/2024

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 10.1:**

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Condition 11: Recycling and Salvage**  
Effective between the dates of 10/02/2019 and 10/01/2024

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 11.1:**

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
Effective between the dates of 10/02/2019 and 10/01/2024

**Applicable Federal Requirement:6 NYCRR 201-1.8**

**Item 12.1:**

No person shall unnecessarily remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Condition 13: Exempt Sources - Proof of Eligibility**  
Effective between the dates of 10/02/2019 and 10/01/2024

**Applicable Federal Requirement:6 NYCRR 201-3.2 (a)**

**Item 13.1:**

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The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

**Condition 14: Trivial Sources - Proof of Eligibility**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 201-3.3 (a)**

**Item 14.1:**

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

**Condition 15: Requirement to Provide Information**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (4)**

**Item 15.1:**

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 16: Right to Inspect**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (8)**

**Item 16.1:**

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit;

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and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 17: Off Permit Changes****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 201-6.4 (f) (6)****Item 17.1:**

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

**Condition 18: Required Emissions Tests****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 202-1.1****Item 18.1:**

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

**Condition 19: Accidental release provisions.****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 40 CFR Part 68****Item 19.1:**

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities

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greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
  - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
  - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center  
C/O CSC  
8400 Corporate Dr  
Carrollton, Md. 20785

**Condition 20: Recycling and Emissions Reduction**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:40CFR 82, Subpart F**

**Item 20.1:**

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

**The following conditions are subject to annual compliance certification requirements for Title V permits only.**

**Condition 21: Emission Unit Definition**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 21.1:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-BLERS

Emission Unit Description:

This emission unit consists of the plant's boilers for both the space and sludge heating demand. The plant has three Cleaver Brooks/CB 700-400-15 gas-fired steam boilers installed in 1998 and each rated 16.75 mmbtu/hr. These three steam boilers fire natural gas and one boiler is operated continuously throughout the year and two boilers will be operated for peak heating demand during winter. These three steam boilers will be removed after the final upgrade is completed.



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The ongoing upgrade has installed nine Cleaver Brooks/CB-LE hot water boilers with 30.618 mmBtu/hr maximum fuel input capacity. These hot water boilers fire sludge digester gas and natural gas.

Building(s): MAIN  
NMAIN

**Item 21.2:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 2-WWTRE

Emission Unit Description:

This unit consists of the plant's wastewater treatment processes. These processes include the existing Headworks (HW), Aeration and Final Settling process (AFS) and chlorine contact (CCT) with dechlorination. The on going interim upgrade has demolished and removed the old Grit Chambers process (GC) and constructed four new grit buildings. Odorous air from the new grit building are treated through the North and Central Odor Control System. Other than the headworks, all processes are all outdoor and in large tanks. These processes also include the chlorine contact disinfection process with dechlorination to be constructed under the plant's final upgrade. Under the plant's interim upgrade and the final upgrade construction, these processes will be reconstructed and new processes will be added to the plant. Activated carbon adsorption vessels either have been installed or have been scheduled to be installed. Emissions from these processes depend on the concentrations of pollutants of concern in the plant's influent of which the plant does not have complete control. Therefore, the emissions are based on currently available data. Two packaged carbon adsorber odor control systems have been added to the plant's headworks process to control the odors at the Manhattan uptake shaft and the influent splitter box. Under the final plant upgrade, the emission from the splitter box will be treated by the Central Residual Odor Control System under emission unit 4-RESID. A new odor control system is installed at the Main Building that has four carbon adsorber tanks.

Building(s): MAIN  
NCONTROL  
OUTDOOR  
SCONTROL

**Item 21.3:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 3-NSLUD

Emission Unit Description:

This emission unit consists of the operation in the new Digestion Building, the Service Building and the digester gas holding tank (previously listed under emission unit 3-SLUDG). The Digestion Building will include 8 new anaerobic digesters and two new sludge storage tanks. The Service Building houses the odor control system

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(SBOC1 and SBOC2) that will be used to control the odors from the digesters and the sludge storage tanks. This emission unit also contains an organic food waste to energy project. One of the WWTP's decommissioned thickener tanks was converted to a 150,000 gallon food waste storage tank which will mix the macerated food waste to feed to a digester. A 1,200 CFM two-stage carbon odor control system (FWOC1) was installed to treat odors from the food waste storage tank. The emission unit 3-SLUDG is removed from this renewal 2 application since sludge gravity thickeners and sludge storage tanks are either out of service or had been removed as part of the plant's upgrade plan.

Building(s): GHOLDING  
SERVICE  
SLUDGE

**Item 21.4:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 4-RESID

Emission Unit Description:

This emission unit consists of the Central Residuals process which takes place in the central residual building. The process includes the following areas: screening room, channels and compactor, the sludge screening areas, the grit cyclone and classifier areas, the skimmings concentrator areas and the disposal areas and the splitter box. The odor control system consists of 14 carbon adsorbers (ROCU1 THRU ROC14) that discharge through a common single exhaust stack.

Building(s): OUTDOOR  
RESID

**Item 21.5:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 5-MISCS

Emission Unit Description:

This emission unit is for the facility's non-exempt chemical storage and fuel storage tanks, that exceed the 10000 gal exempt threshold. The CST process includes a total of 4 (four) non-exempt 18190 hypochlorite tanks.

There are also 5 non-exempt Diesel fuel tanks, 4 x 20,000 gallons and 1 x 12,000 gallon tanks.

As part of the plant's upgrade plan, DEP installed two x 18190 gallon tanks to store sodium bisulfite for dechlorination process.

Building(s): OUTDOOR

**Item 21.6:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 6-FLARE

Emission Unit Description:

This unit consists of the plant's four new enclosed waste sludge digester gas burners installed as part of the upgrade to flare

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excessive sludge digester gas.

As part of New York City's anti-global warming effort to reduce Green House Gas ("GHG") emissions, the plant will install a system for collecting and treating digester gas from the plant and injecting the treated methane gas into the National Grid natural gas distribution system. The methane gas would be consumed by National Grid's New York City customers. This separation system includes a thermal oxidizer to destroy those unwanted constituents (captured VOCs, H<sub>2</sub>S, and other separated constituents) removed from the plant's digester gas.

The thermal oxidizer is going to be placed near the WWTP's existing waste gas burner #1.

Building(s): NMAIN

**Item 21.7:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 7-GTURB

Emission Unit Description:

This unit consists of four emergency gas turbines with 7.2 MW maximum capacity and two black start engines. The emergency turbine generators are used in the event of emergency, such as service disruption or a black out and may be operated for participation in the New York State Demand Reduction Program. The emergency turbines would provide backup power to the plant during those times and will be exercised on a routine basis. The two black start engines are used to start the turbines and will be operated for routine maintenance.

Building(s): NMAIN

**Condition 22: Progress Reports Due Semiannually**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)**

**Item 22.1:**

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**Condition 23: Facility Permissible Emissions**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

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**Item 23.1:**

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY210-00-0

PTE: 90,200 pounds per year

Name: OXIDES OF NITROGEN

**Condition 24: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement:6 NYCRR Subpart 202-1****Item 24.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

Monitoring Description:

Emissions from these wastewater treatment related processes vary based on the constituents of the plant influent, over which the plant has no control. The emissions are based on current sampling and computer modeling.

For VOC emissions from wastewater treatment related sources, annual emissions will be estimated using TOXCHEM + modeling approach and at the least annually influent sampling results. For the combustion sources, annual emissions will be estimated using fuel usage, source testing data, vendor guarantee and/or published emission factors.

Parameter Monitored: VOC

Upper Permit Limit: 25 tons per year

Reference Test Method: EPA 600 Series

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MEDIAN

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2020.

Subsequent reports are due every 12 calendar month(s).

**Condition 25: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement:6 NYCRR Subpart 202-1**

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**Item 25.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0      TOTAL HAP

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

Monitoring Description:

Emissions from the wastewater treatment related processes vary based on the constituents of the plant influent, over which the plant has no control. The emissions are based on current sampling and computer modeling.

For HAP emissions from wastewater treatment related sources, annual emissions will be estimated using TOXCHEM + modeling approach and at the least annually influent sampling results. For the combustion sources, annual emissions will be estimated using fuel usage, source testing data, vendor guarantee and/or published emission factors.

Parameter Monitored: TOTAL HAP

Upper Permit Limit: 25 tons per year

Reference Test Method: EPA 600 series

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MEDIAN

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2020.

Subsequent reports are due every 12 calendar month(s).

**Condition 26: Visible Emissions Limited**

**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 26.1:**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Condition 27: Compliance Certification**

**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 27.1:**

The Compliance Certification activity will be performed for the Facility.

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**Item 27.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

FACILITY SHALL ESTABLISH A COMPLAINT RESPONSE PROCEDURE TO MANAGE COMPLAINTS RECEIVED AT THIS FACILITY. THE PROCEDURE SHALL BE DESIGNED TO ENSURE THAT COMPLAINTS ARE ADEQUATELY RECEIVED AND DOCUMENTED, AND RECEIVE TIMELY RESPONSE. THE FACILITY SHALL, AT A MINIMUM, FOLLOW THE FOLLOWING PROCEDURES:

1. MAINTAIN A COMPLAINT PHONE LINE AND PERSONNEL AVAILABLE DURING THE TIME, PLANT IS OPERATING (24 HOURS A DAY, 7 DAYS A WEEK).
2. PERSONNEL SHALL WALK AROUND THE PROPERTY FENCE LINE ONCE A WEEK TO MONITOR H<sub>2</sub>S.
3. IF RESULTS INDICATE H<sub>2</sub>S > 10 PPB, DEP SHALL INVESTIGATE SOURCE OF ODOR AND IF APPLICABLE TO THE PLANT, MAKE NECESSARY CORRECTIVE ACTIONS.
4. COMMENCE AN ODOR INVESTIGATION SURVEY OF THE PLANT WITHIN A PERIOD NOT EXCEEDING 120 MINUTES OF RECEIVING AN ODOR COMPLAINT.
5. PERMITTEE SHALL CALL BACK COMPLAINANT WITHIN FOUR HOURS FROM THE TIME COMPLAINANT'S CALL IS RECEIVED (UNLESS THE COMPLAINANT WOULD PREFER TO BE CONTACTED AT ANOTHER TIME), WITH THE RESULTS OF THE SURVEY AND CORRECTIVE ACTIONS THAT ARE TAKEN.
6. TAKE PROMPT ACTION TO ABATE ANY CIRCUMSTANCES WHICH ARE FOUND TO BE THE CAUSE OF THE COMPLAINT.
7. FULLY DOCUMENT THE COMPLAINT, RESULTS OF INVESTIGATION, AND ANY CORRECTIVE ACTIONS TAKEN.
8. MAINTAIN AND SUBMIT, ON A SEMIANNUAL BASIS, ALL THE RECORDS REGARDING ODOR COMPLAINTS. THESE SHALL INCLUDE THE FOLLOWING AT A MINIMUM: NAME, ADDRESS AND TELEPHONE NUMBER OF COMPLAINANT, DATE AND TIME OF CALL, DESCRIPTION OF COMPLAINT, WHEN AND WHERE THE COMPLAINANT NOTICED THE NUISANCE ODOR, CLIMATIC CONDITIONS, CAUSE OF COMPLAINT, CORRECTIVE ACTION TAKEN IN RESPONSE OF COMPLAINT, NAME, TITLE AND SIGNATURE OF SHIFT SUPERINTENDENT ON DUTY AT THE TIME

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OF THE SURVEY.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 28: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 211.2****Item 28.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007783-06-4 HYDROGEN SULFIDE

**Item 28.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE

PARAMETERS AS SURROGATE

Monitoring Description:

FACILITY SHALL MONITOR THE EFFECTIVENESS OF ITS CARBON VESSEL ODOR CONTROLS, AND REPLACE THE CARBON IN THE CARBON VESSELS ACCORDING TO THE FOLLOWING PLAN:

1. THE FACILITY SHALL MAINTAIN A BIENNIAL CARBON EFFICIENCY MONITORING PROGRAM PERFORMED BY A QUALIFIED CONSULTANT. WITHIN 60 DAYS OF RECEIPT OF THIS PERMIT, THE FACILITY SHALL SUBMIT FOR DEC'S REVIEW A PROTOCOL OF THE ABOVE-MENTIONED BIENNIAL CARBON EFFICIENCY MONITORING PROGRAM. THE PROTOCOL MUST CONTAIN ASTM DESIGNATION D-6646-01 AS THE STIPULATED TEST METHOD FOR THE DETERMINATION OF THE H<sub>2</sub>S BREAKTHROUGH CAPACITY OF GRANULAR AND PELLETIZED ACTIVATED CARBON. FUTURE NEW PROTOCOLS DUE TO CHANGE OF THE CONTRACTOR OR OTHER REASONS SHOULD BE SUBMITTED TO DEC FOR REVIEW AND APPROVAL PRIOR TO THEIR IMPLEMENTATION.

2. AT ANY TIME WHEN 50 PPB ARE MEASURED AT THE OUTLET OF ANY OF THE CARBON-VESSELS, DEP SHALL NOTIFY DEC WITHIN 48 HOURS OF THE OCCURRENCE OF SUCH A MEASUREMENT.

DEP SHALL NOTIFY DEC WITHIN 48 HOURS THAT A VESSEL NEEDS CARBON REPLACEMENT. DEP SHALL ALSO

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NOTIFY DEC WITHIN 5 DAYS OF THE CARBON BEING REPLACED  
THAT THE REPLACEMENT HAS TAKEN PLACE.

Parameter Monitored: HYDROGEN SULFIDE

Upper Permit Limit: 50 parts per billion by volume

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 29: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement:6 NYCRR 211.2****Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The plant should follow the Good Engineering Practice and take precautions to minimize odors. The plant shall evaluate the operations and maintenance of odor control systems and keep the system in compliance. The plant must maintain a daily log on site to record the presence of odors and corrective actions taken in the event of these odors and report it to the Department semiannually.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 30: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement:6 NYCRR 225-1.2 (h)****Item 30.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 30.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that



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fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME  
(INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 31: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 225-1.6 (f)****Item 31.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 31.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period.

All other facility owners or distributors must submit these records and summaries upon request of the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

## \*\*\*\* Emission Unit Level \*\*\*\*

**Condition 32: Emission Point Definition By Emission Unit**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR Subpart 201-6****Item 32.1:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-BLERS

Emission Point: 1BLR1

Height (ft.): 75	Diameter (in.): 48	
NYTMN (km.): 4509.615	NYTME (km.): 588.958	Building: NMAIN

Emission Point: 1BLR2

Height (ft.): 75	Diameter (in.): 48	
NYTMN (km.): 4509.605	NYTME (km.): 588.958	Building: NMAIN

Emission Point: 1BLR3

Height (ft.): 75	Diameter (in.): 48	
NYTMN (km.): 4509.596	NYTME (km.): 588.96	Building: NMAIN

Emission Point: 1BLR4

Height (ft.): 75	Diameter (in.): 48	
NYTMN (km.): 4509.585	NYTME (km.): 588.963	Building: NMAIN

Emission Point: 1BLR5

Height (ft.): 75	Diameter (in.): 36	
NYTMN (km.): 4509.617	NYTME (km.): 588.966	Building: NMAIN

Emission Point: 1UBLR

Height (ft.): 49	Length (in.): 48	Width (in.): 48
NYTMN (km.): 4509.604	NYTME (km.): 588.97	Building: MAIN

**Item 32.2:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 2-WWTRE

Emission Point: 2FBAY

Height (ft.): 22	Diameter (in.): 36	
NYTMN (km.): 4509.759	NYTME (km.): 588.743	Building: MAIN

Emission Point: 2NCOC

Height (ft.): 125	Diameter (in.): 96	
NYTMN (km.): 4509.527	NYTME (km.): 588.971	Building: MAIN

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Emission Point: 2SOOC  
Height (ft.): 125 Diameter (in.): 72  
NYTMN (km.): 4509.523 NYTME (km.): 588.975 Building: MAIN

Emission Point: ISBOC  
Height (ft.): 8 Diameter (in.): 12  
NYTMN (km.): 4509.709 NYTME (km.): 588.799 Building: OUTDOOR

Emission Point: MBOCA  
Height (ft.): 42 Diameter (in.): 30  
NYTMN (km.): 4509.523 NYTME (km.): 588.9 Building: MAIN

Emission Point: MBOCB  
Height (ft.): 42 Diameter (in.): 30  
NYTMN (km.): 4509.523 NYTME (km.): 588.9 Building: MAIN

Emission Point: MBOCC  
Height (ft.): 42 Diameter (in.): 30  
NYTMN (km.): 4509.523 NYTME (km.): 588.9 Building: MAIN

Emission Point: MBOCD  
Height (ft.): 20 Diameter (in.): 30  
NYTMN (km.): 4509.523 NYTME (km.): 588.9 Building: MAIN

Emission Point: MUSOC  
Height (ft.): 7 Diameter (in.): 12  
NYTMN (km.): 4509.709 NYTME (km.): 588.799 Building: OUTDOOR

**Item 32.3:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 3-NSLUD

Emission Point: 3NAD1  
Height (ft.): 52 Diameter (in.): 36  
NYTMN (km.): 4509.764 NYTME (km.): 589.02 Building: SERVICE

Emission Point: FWOCA  
Height (ft.): 6 Diameter (in.): 60  
NYTMN (km.): 4509.764 NYTME (km.): 589.02 Building: OUTDOOR

**Item 32.4:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 4-RESID

Emission Point: 4RHOC  
Height (ft.): 125 Diameter (in.): 132  
NYTMN (km.): 4509.709 NYTME (km.): 588.799 Building: OUTDOOR

**Item 32.5:**

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The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 6-FLARE

Emission Point: 6BUR1

Height (ft.): 30

Diameter (in.): 96

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: 6BUR2

Height (ft.): 30

Diameter (in.): 96

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: 6BUR3

Height (ft.): 30

Diameter (in.): 96

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: 6BUR4

Height (ft.): 30

Diameter (in.): 96

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: OXIDS

Height (ft.): 75

Diameter (in.): 36

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

**Item 32.6:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 7-GTURB

Emission Point: BSE1A

Height (ft.): 44

Diameter (in.): 8

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: BSE1B

Height (ft.): 44

Diameter (in.): 8

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: BSE2A

Height (ft.): 44

Diameter (in.): 8

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: BSE2B

Height (ft.): 44

Diameter (in.): 8

NYTMN (km.): 4509.6

NYTME (km.): 589.4

Building: NMAIN

Emission Point: TURB1

Height (ft.): 74

Diameter (in.): 54

NYTMN (km.): 4509.59

NYTME (km.): 589.095

Building: NMAIN

Emission Point: TURB2

Height (ft.): 74

Diameter (in.): 54

NYTMN (km.): 4509.58

NYTME (km.): 589.097

Building: NMAIN

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Emission Point: TURB3

Height (ft.): 74

Diameter (in.): 54

NYTMN (km.): 4509.571

NYTME (km.): 589.096

Building: NMAIN

Emission Point: TURB4

Height (ft.): 74

Diameter (in.): 54

NYTMN (km.): 4509.564

NYTME (km.): 589.101

Building: NMAIN

**Condition 33: Process Definition By Emission Unit****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR Subpart 201-6****Item 33.1:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-BLERS

Process: BLR

Source Classification Code: 1-03-007-01

Process Description:

This process is for the new nine 30.618 mmBtu/hr Cleaver Brooks CB 700-750-125 HW hot water boilers to fire gaseous fuel (sludge digester gas or natural gas or blend). Once the upgrade is complete these new boilers will normally fire sludge digester gas. At times that sludge digester gas is unavailable, these boilers will fire natural gas or blend. Up to eight of these new boilers may be operated at a time for peak demand during winter. At all times, at least one boiler is kept offline as standby.

Emission Source/Control: BLER1 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER2 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER3 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER4 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER5 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER6 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER7 - Combustion

Design Capacity: 30.6 million Btu per hour

Emission Source/Control: BLER8 - Combustion

Design Capacity: 30.6 million Btu per hour

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Facility DEC ID: 2610100025

Emission Source/Control: BLER9 - Combustion  
Design Capacity: 30.6 million Btu per hour

**Item 33.2:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-BLERS  
Process: IUB  
Process Description:

Source Classification Code: 1-03-007-01

This process is for the three existing 16.75 mmBtu/hr Cleaver Brooks (CB 700-400-15) boilers that fire natural gas. One boiler is continuously operated throughout the year and two boilers are operated for peak heating demand during winter. At all times, at the least one boiler is kept offline as standby.

Emission Source/Control: 0IUB1 - Combustion  
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: 0IUB2 - Combustion  
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: 0IUB3 - Combustion  
Design Capacity: 16.75 million Btu per hour

**Item 33.3:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-WWTRE  
Process: 0AS  
Process Description:

Source Classification Code: 5-01-007-31

THIS IS THE PLANT'S MODIFIED ACTIVATED SLUDGE (AS) SECONDARY TREATMENT PROCESS CONSISTING OF 24 MODIFIED DIFFUSED AIR ACTIVATED SLUDGE AERATION TANKS. IN THIS PROCESS, THE EFFLUENT FROM THE PRIMARY TREATMENT SECTION CONTAINING MAINLY COLLOIDAL AND DISSOLVED SOLIDS (BOTH INORGANIC AND ORGANIC) ARE TREATED BIOLOGICALLY BY UTILIZING MANY DIFFERENT TYPES OF MICROORGANISMS IN A CONTROLLED ENVIRONMENT. LARGE AMOUNTS OF AIR ARE PUMPED INTO AERATION TANKS MIXING THE WASTEWATER AND SLUDGE RETURNED FROM THE PLANT'S FINAL SETTLING TANKS. THIS SPEEDS THE GROWTH OF THE OXYGEN-USING BACTERIA AND OTHER TINY ORGANISMS THAT ARE NATURALLY PRESENT IN THE SEWAGE. THESE BENEFICIAL MICROORGANISMS CONSUME MOST OF THE REMAINING ORGANIC POLLUTANTS PRODUCING HEAVIER PARTICLES WHICH SETTLE OUT LATER IN THE FINAL SETTLING TANKS.

THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW.

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Renewal 2010

THE AERATION TANKS AND THE FINAL SETTLING TANKS WEIRS  
ARE COVERED AND THE ODORS ARE CONTROLLED USING CARBON  
ADSORPTION TANKS.

Emission Source/Control: NOC10 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOC11 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOC12 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOC13 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOC14 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU1 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU2 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU3 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU4 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU5 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU6 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU7 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU8 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NOCU9 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU1 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU2 - Control

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Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU3 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU4 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU5 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU6 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SOCU7 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 00ATS - Process  
Design Capacity: 310,000,000 gallons per day

Emission Source/Control: 0FSTS - Process  
Design Capacity: 310,000,000 gallons per day

**Item 33.4:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-WWTRE

Process: OCC

Source Classification Code: 5-01-007-60

Process Description:

THIS IS THE PLANT'S CHLORINE CONTACT (CC) DISINFECTION PROCESS TO BE CONSTRUCTED IN THE FUTURE BY THE PLANT FINAL UPGRADING. THIS UPGRADING ALSO INCLUDES DECHLORINATION USING SODIUM BISULFITE. THE WASTEWATER FROM THE FINAL SETTLING TANKS FLOWS TO THE CHLORINE CONTACT TANKS WHERE SODIUM HYPOCHLORITE IS ADDED TO DISINFECT AND KILL DISEASE-CAUSING ORGANISMS. THE TREATED WASTEWATER (EFFLUENT) IS THEN RELEASED TO LOCAL WATERWAYS.

THE TOTAL THRUPUT IS BASED ON DRY WEATHER FLOW.

Emission Source/Control: 0CCTS - Process  
Design Capacity: 310,000,000 gallons per day

**Item 33.5:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-WWTRE

Process: 0HW

Source Classification Code: 5-01-007-07

Process Description:

THIS PROCESS IS THE PLANT'S WASTEWATER PRE TREATMENT HEAD WORKS (HW) PROCESSES INCLUDING FOREBAY, BAR



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SCREENING, AFTERBAY, INFLUENT SPLIT BOX AND ITS WEIR. THE BAR SCREENS CONSIST OF UPRIGHT BARS SPACED ONE TO THREE INCHES APART. THE PRIMARY PURPOSE OF THE BAR SCREEN IS TO REMOVE LARGE PIECES OF TRASH (RAGS, STICKS, NEWSPAPER, CANS, ETC.,) FOR THE PROTECTION OF THE MAIN SEWAGE PUMP AND OTHER EQUIPMENT. ODORS FROM THIS PROCESS ARE CONTROLLED BY 4 ODOR CONTROL UNITS (M10C1, M10C2, M21C1, M20C2) IN THE MAIN BUILDING SCREEN WING.

**ODOR**

THE MANHATTAN UPTAKE SHAFT AND THE INFLUENT SPLITTER BOX ARE EQUIPPED WITH TWO PACKAGED CARBON ADSORBER CONTROL SYSTEMS (MUSOC, ISBOC) TO CONTROL ODORS AT THE PLANT'S HEADWORKS PROCESS.

THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW.

Emission Source/Control: 0FBAY - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ISBOC - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: M10C1 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: M10C2 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: M20C1 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: M20C2 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: MUSOC - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 0SBOX - Process  
Design Capacity: 310,000,000 gallons per day

Emission Source/Control: SCREN - Process  
Design Capacity: 310,000,000 gallons per day

**Item 33.6:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-NSLUD

Process: DGH

Source Classification Code: 5-01-007-99

Process Description:

THIS PROCESS IS THE DIGESTER GAS HOLDING (DGH) TANK.

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THIS TANK HAS NO ADD ON EMISSION CONTROL BUT ITS EMISSION COULD BE IGNORED BECAUSE THE TANK HAS NO ACTIVE EMISSION POINTS AND OR POLLUTANT RELEASES. THE TOTAL THRUPUT IS ESTIMATED BASED ON THE HISTORICAL OPERATION DATA.

Emission Source/Control: GHOLD - Process  
Design Capacity: 300,000 cubic feet

**Item 33.7:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-NSLUD

Process: NAD

Source Classification Code: 5-01-007-71

Process Description:

THE NEW SLUDGE ANAEROBIC DIGESTION (NAD) PROCESS CONSISTS OF 8 NEW DIGESTERS AND 2 NEW SLUDGE STORAGE TANKS. THE ODORS FROM THE 8 DIGESTER OVERFLOW BOXES AND THE 2 SLUDGE STORAGE TANKS WILL BE CONTROLLED USING A CARBON ADSORBER SYSTEM. THE ODOR CONTROL SYSTEM WILL CONSIST OF TWO DUAL BED CARBON ADSORBERS. UNDER NORMAL OPERATIONS, ONE UNIT WILL BE OPERATING AND ONE UNIT WILL BE ON STANDBY.

Emission Source/Control: SBOC1 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: SBOC2 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: DIGES - Process

**Item 33.8:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 4-RESID

Process: SCU

Source Classification Code: 5-01-007-99

Process Description:

The SCU process takes place in the central residual building. The process includes the following areas: screening room, channels and compactor, the sludge screening areas, the grit cyclone and classifier areas, the skimmings concentrator areas, the disposal areas and the splitter box. The odor control system consists of 14 carbon adsorbers that discharge through a common single exhaust stack. The total throughput is based on the designed ventilation air flow capacity of the activated carbon adsorption vessels. This process is at the Central Residual Building.

Emission Source/Control: ROC10 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

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Emission Source/Control: ROC11 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROC12 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROC13 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROC14 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU1 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU2 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU3 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU4 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU5 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU6 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU7 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU8 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ROCU9 - Control  
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 00CRP - Process

**Item 33.9:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 5-MISCS

Process: CST

Source Classification Code: 3-01-830-01

Process Description:

This process includes the plant's Chemical Storage Tanks (CST) that exceeds the 10,000 gal exempt threshold. There are a total of six (6) tanks for Hypochlorite storages: 6X16,800 gallon Hypochlorite storage tanks. There are also five (5) nonexempt diesel storage tanks: 4 x 20,000 gallon diesel tanks and 1 x 12,000 gallon diesel tank.

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Emission Source/Control: BISU1 - Process  
Design Capacity: 18,190 gallons

Emission Source/Control: BISU2 - Process  
Design Capacity: 18,190 gallons

Emission Source/Control: FST01 - Process

Emission Source/Control: FST02 - Process

Emission Source/Control: FST03 - Process

Emission Source/Control: FST04 - Process

Emission Source/Control: FST05 - Process

Emission Source/Control: HYPO1 - Process  
Design Capacity: 18,190 gallons

Emission Source/Control: HYPO2 - Process  
Design Capacity: 18,190 gallons

Emission Source/Control: HYPO3 - Process  
Design Capacity: 18,190 gallons

Emission Source/Control: HYPO4 - Process  
Design Capacity: 18,190 gallons

**Item 33.10:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 6-FLARE

Process: BUG

Source Classification Code: 5-01-007-89

Process Description:

This process is for four Varec Model 249, enclosed waste gas burners with 46 mmBtu/hr burning capacity to burn the excessive sludge digester gas produced at the WWTP.

The total throughput of the waste burner operation is based on the estimated digester gas production at the WWTP.

Emission Source/Control: NWGB1 - Combustion  
Design Capacity: 46 million Btu per hour

Emission Source/Control: NWGB2 - Combustion  
Design Capacity: 46 million Btu per hour

Emission Source/Control: NWGB3 - Combustion  
Design Capacity: 46 million Btu per hour

Emission Source/Control: NWGB4 - Combustion

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Design Capacity: 46 million Btu per hour

**Item 33.11:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 6-FLARE

Process: OXD

Source Classification Code: 3-01-830-01

Process Description:

This process includes a thermal oxidizer to destroy those unwanted constituents (captured VOCs, H<sub>2</sub>S, and other separated constituents) removed from the plant's digester gas by a separation system. The thermal oxidizer is located near the WWTP's existing waste gas burner #1. Waste heat from the oxidizer flue gas will be captured to further reduce boiler use at the plant.

Emission Source/Control: OXIDR - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: NGDGS - Process

**Item 33.12:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 7-GTURB

Process: ENG

Source Classification Code: 2-02-004-02

Process Description:

The plant has 2 black start internal combustion engine generators that will be used to kick start the emergency turbines. For testing, these units are expected to operate for routine testing and maintenance and to start the turbines. Fuel is diesel.

Emission Source/Control: ENG01 - Combustion

Design Capacity: 7.5486 million Btu per hour

Emission Source/Control: ENG02 - Combustion

Design Capacity: 7.5486 million Btu per hour

**Item 33.13:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 7-GTURB

Process: TRB

Source Classification Code: 2-01-001-01

Process Description:

As part of track 3 upgrade, four emergency gas turbines with 7.2 MW maximum capacity are installed and operated at the plant. The emergency turbine generators are used in the event of emergency, such as service disruption or a black out and may be operated for participation in the New York State Demand Reduction Program. The emergency turbines would provide backup power to the plant during those times. Fuel is diesel.

Emission Source/Control: GTUR1 - Combustion

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Design Capacity: 58 million Btu per hour

Emission Source/Control: GTUR2 - Combustion  
Design Capacity: 58 million Btu per hourEmission Source/Control: GTUR3 - Combustion  
Design Capacity: 58 million Btu per hourEmission Source/Control: GTUR4 - Combustion  
Design Capacity: 58 million Btu per hour**Condition 34: Emission Unit Permissible Emissions**  
**Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement:6 NYCRR Subpart 201-7****Item 34.1:**

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 1-BLERS

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 5.525 pounds per hour

48,400 pounds per year

Emission Unit: 6-FLARE

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 4.43 pounds per hour

38,800 pounds per year

Emission Unit: 7-GTURB

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 2.1 pounds per hour

18,400 pounds per year

**Condition 35: Capping Monitoring Condition**  
**Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement:6 NYCRR Subpart 201-7****Item 35.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

6 NYCRR Subpart 231-2

**Item 35.2:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 35.3:**

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**Item 35.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 35.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 35.6:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BLERS

Regulated Contaminant(s):

CAS No: 0NY210-00-0      OXIDES OF NITROGEN

**Item 35.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Annual NO<sub>x</sub> emissions from this Emission Unit 1-BLERS will be limited to the unit's Proposed Cap Potential To Emit (PTE) of 24.2 tons per year.

The actual NO<sub>x</sub> emissions will be determined by record of all fuel consumption at the sources in this emission unit and the calculations in the attached PTE calculations to demonstrate compliance of the 24.2 ton/yr NO<sub>x</sub> emission limit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.2 tons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 36: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)****Item 36.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BLERS

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

## Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site.



Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2020.  
Subsequent reports are due every 6 calendar month(s).

**Condition 37: Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)**

**Item 37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BLERS

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2020.  
Subsequent reports are due every 12 calendar month(s).

**Condition 38: Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 40CFR 60.48c(a), NSPS Subpart Dc**

**Item 38.1:**

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

The Compliance Certification activity will be performed for:

Emission Unit: 1-BLERS

**Item 38.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

(2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 39: Compliance Certification**

**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)**

**Item 39.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BLERS

Process: BLR

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Stack testing should be done as per the approved protocol.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.052 pounds per million Btus

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Reference Test Method: 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 5 MINUTES

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 40: Capping Monitoring Condition**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7****Item 40.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

**Item 40.2:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 40.3:**

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**Item 40.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 40.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 40.6:**

The Compliance Certification activity will be performed for:

Emission Unit: 6-FLARE

Regulated Contaminant(s):

CAS No: 0NY210-00-0      OXIDES OF NITROGEN

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

**Item 40.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Annual NO<sub>x</sub> emissions from this Emission Unit 6-FLARE will be limited to the unit's Proposed Cap Potential To Emit (PTE) of 19.4 tons per year.

Flare emission factor (lb/mmBtu) \* total heat input (mmBtu/yr) < 19.4 tons per year

Flares:

Emission factor - 0.08 lb/mmBtu

Maximum limits - 483552 mmBtu/yr, 19.4 tons/yr of NO<sub>x</sub>

The actual NO<sub>x</sub> emissions will be determined by record of all fuel consumption at the sources in this emission unit and the calculations in the attached PTE calculations to demonstrate compliance of the 19.4 ton/yr NO<sub>x</sub> emission limit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 19.4 tons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)****Item 41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 6-FLARE

**Item 41.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 42: Compliance Certification**

**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (g)**

**Item 42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 6-FLARE

Regulated Contaminant(s):

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

CAS No: 0NY210-00-0      OXIDES OF NITROGEN

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For compliance with the emission rate limit of these new enclosed flares, the facility will conduct a stack test once during the term of this permit.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.08 pounds per million Btus

Reference Test Method: EPA approved

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 5 MINUTES

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 43:      Capping Monitoring Condition****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR Subpart 201-7****Item 43.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 231-2

**Item 43.2:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 43.3:**

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**Item 43.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

**Item 43.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 43.6:**

The Compliance Certification activity will be performed for:

Emission Unit: 7-GTURB

Regulated Contaminant(s):

CAS No: 0NY210-00-0      OXIDES OF NITROGEN

**Item 43.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Annual NO<sub>x</sub> emissions from the Emission Unit 7-GTURB will be limited to the unit's Proposed Cap Potential To Emit (PTE) of 9.2 tons per year (8.6 tons/yr of NO<sub>x</sub> for emergency turbines, and 0.6 tons/yr of NO<sub>x</sub> for black-start engines).

Emergency Turbine emission factor (lb/mmBtu) \* total heat input (mmBtu/yr) + Black Start Engines emission factor (lb/mmBtu) \* total heat input (mmBtu/yr) < 9.2 tons per year

For Emergency Turbines:

Emission factor - 0.39 lb/mmBtu

Maximum limits - 44232 mmBtu/yr, 8.6 tons/yr of NO<sub>x</sub>

For Black Start Engines:

Emission factor - 2.65 lbs/mmBtu

Maximum limits - 453 mmBtu/yr, 0.6 tons/yr of NO<sub>x</sub>

Total maximum limits: 44685 mmBtu/yr, 9.2 tons/yr of NO<sub>x</sub>

The actual NO<sub>x</sub> emissions will be determined by record of all fuel consumption at the sources in this emission unit and the calculations in the attached PTE calculations to demonstrate compliance of the 9.2 ton/yr NO<sub>x</sub> emission limit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: OXIDES OF NITROGEN

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Upper Permit Limit: 9.2 tons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 44: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)****Item 44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 7-GTURB

**Item 44.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

## Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall



Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2020.  
Subsequent reports are due every 6 calendar month(s).

**Condition 45: Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable Federal Requirement: 40 CFR 60.48c(a), NSPS Subpart Dc**

**Item 45.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 7-GTURB

**Item 45.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 46: Compliance Certification**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

**Applicable Federal Requirement:6 NYCRR 227.2 (b) (1)****Item 46.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 7-GTURB

Process: ENG

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 46.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit for stationary combustion installation firing oil. The owner or operator shall complete the following once per term of this permit:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emission limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
- 3) All records shall be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 47: Compliance Certification**

Effective between the dates of 10/02/2019 and 10/01/2024

**Applicable Federal Requirement:6 NYCRR 227-2.4 (e) (1)****Item 47.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 7-GTURB

Process: TRB

Permit ID: 2-6101-00025/00057

Facility DEC ID: 2610100025

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 47.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Stack testing should be done as per the approved protocol.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 100 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA approved

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 5 MINUTES

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

**Condition 48: Compliance Certification****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)****Item 48.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 7-GTURB

Process: TRB

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 48.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit for stationary combustion installation firing oil. The owner or operator shall complete the following once per term of this permit:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emission limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
- 3) All records shall be maintained at the facility for a minimum of

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five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD  
INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).

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**STATE ONLY ENFORCEABLE CONDITIONS****\*\*\*\* Facility Level \*\*\*\*****NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
- (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 49: Contaminant List****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable State Requirement:ECL 19-0301****Item 49.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007783-06-4  
Name: HYDROGEN SULFIDE

CAS No: 0NY075-00-0  
Name: PARTICULATES

CAS No: 0NY100-00-0  
Name: TOTAL HAP

CAS No: 0NY210-00-0  
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0  
Name: VOC

**Condition 50: Malfunctions and start-up/shutdown activities****Effective between the dates of 10/02/2019 and 10/01/2024****Applicable State Requirement:6 NYCRR 201-1.4****Item 50.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in

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an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

**Condition 51: Air pollution prohibited**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable State Requirement:6 NYCRR 211.1**

**Item 51.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**Condition 52: Compliance Demonstration**  
**Effective between the dates of 10/02/2019 and 10/01/2024**

**Applicable State Requirement:6 NYCRR Subpart 257-10**

**Item 52.1:**

The Compliance Demonstration activity will be performed for the Facility.

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Regulated Contaminant(s):

CAS No: 007783-06-4 HYDROGEN SULFIDE

**Item 52.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE PERMITTEE (DEP) SHALL HAVE PERSONNEL AVAILABLE AT THE PLANT 24 HOURS A DAY, 7 DAYS A WEEK TO RESPOND TO ANY ODOR EVENTS. IN ADDITION, THE PERMITTEE'S PERSONNEL SHALL WALK AROUND THE PERIMETER OF THE PLANT, ONCE A WEEK, TO MONITOR FOR H<sub>2</sub>S WITH EPA APPROVED METERS. IF THE CONCENTRATION OF HYDROGEN SULFIDE EXCEED 0.010 PPM ( 14 MICROGRAMS PER CUBIC METER) AT ANY TIME, THE PERMITTEE SHALL RESPOND AS FOLLOWS:

1. DEP SHALL CONDUCT A THOROUGH INVESTIGATION OF THE H<sub>2</sub>S ODORS BY PERFORMING A FUGITIVE ODOR SURVEY OF THE PLANT TO IDENTIFY A POSSIBLE SOURCE AND TAKE CORRECTIVE ACTIONS IF A SOURCE OF ODORS IS FOUND IN THE PLANT.
2. DEP MUST MAINTAIN AND SUBMIT THE ODOR INVESTIGATION REPORTS TO DEC ON A SEMIANNUAL BASIS.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2020.

Subsequent reports are due every 6 calendar month(s).



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**10/04/2019**

**Facility Identification Data**

Name: NEWTOWN CREEK WASTEWATER TREATMENT PLANT

Address: 329-69 GREENPOINT AVE

BROOKLYN, NY 11222

**Owner/Firm**

Name: NYC DEPT OF ENVIRONMENTAL PROTECTION

Address: 96-05 HORACE HARDING EXPY FL 5

CORONA, NY 11368, USA

Owner Classification: Municipal

**Permit Contacts**

Division of Environmental Permits:

Name: DENISE L GRATTAN

Address: 1 HUNTERS POINT PLAZA

47-40 21ST ST

LONG ISLAND CITY, NY 11101

Phone: 718 482 4997

Division of Air Resources:

Name: PARESH SHAH

Address: NYSDEC - REGION 2

47-40 21ST ST

LONG ISLAND CITY, NY 11101

Air Permitting Contact:

Name: DIMITRIOS KATEHIS

Address: NYC DEP / BWT

96-05 HORACE HARDING EXPY FL 2

FLUSHING, NY 11368

Phone: 718 595 5194

**Permit Description**

**Introduction**

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

**Summary Description of Proposed Project**

This is a permit application to renew the Newtown Creek WWTP Part 201 Title V permit. The plant's existing Part 201 Title V air permit is to expire on 1/6/2019. This renewal application consists of no new source or significant change to the plant's current operation as in the existing Title V permit but incorporates updates on the status of the plant's upgrading construction, but includes only the sections of

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the DEC Renewal 2 Application that require changes from the draft renewal application provided by DEC on March 23, 2018.

These changes include:

- updated applicable federal/state requirements
- updated regulatory required sulfur content requirement for #2 ultra-low sulfur diesel
- corrected heat input value for nine Cleaver-Brooks CBLE 700-750-125HW hot water boilers (BLER1 through BLER9) in Emission Unit 1-BLERS Process BLR
- updated Emission Unit 1-BLERS Process BLR description to reflect the National Grid project location change
- corrected Emission Source IDs for four (4) main building carbon vessels in Emission Unit 2-WWTRE Process OHW from (M10C1, M10C2, M20C1 and M20C2) to (MBOC1, MBOC2, MBOC3 and MBOC4), to be consistent with corresponding Emission Points
- moved the digester gas holding tank, currently listed under Emission Unit 3-SLUDG, to Emission Unit 3-NSLUD; and removed the Emission Unit 3-SLUDG since the upgrade construction has removed other equipment under this Emission Unit 3-SLUDG
- listed the one 1,200 CFM two-stage carbon odor control system (FWOC1) for treating odors from the food waste storage tank, as in the October 30, 2015 letter to DEC, under emission unit 3-NSLUD
- updated Emission Sources under Emission Unit 4-RESID to reflect upgrade construction progress and current operation
- updated storage tanks number and purpose in Emission Unit 5-MISCS to reflect upgrade construction progress and current operation
- revised Emission Unit 6-FLARE to reflect the National Grid project location change

**Attainment Status**

NEWTOWN CREEK WASTEWATER TREATMENT PLANT is located in the town of BROOKLYN in the county of KINGS.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

\*\* NOx has a separate ambient air quality standard in addition to being an ozone precursor.

**Facility Description:**

Newtown Creek WPCP is a 310 million gallon per day (mgd) publicly owned secondary wastewater treatment plant. The standard industrial classification code is 4952-Sewerage Systems.

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This facility is currently undergoing a major construction upgrade. This process upgrade is divided into two components: interim, final. The final upgrade will include construction of new processes and reconstruction of some existing processes as well as repair and replacement of existing equipments.

The plant is using purchased electricity. This facility is categorized into eight (8) Emission Units i.e.: 1-BLERS, 2-WWTRE, 3-NSLUD, 3-SLUDG, 4-RESID, 5-MISCS, 6-FLARE and 7-GTURB.

Newtown Creek WPCP is a major air pollution facility since it emits Nitrogen Oxide (NO<sub>x</sub>) in excess of the 25 tons per year (TPY) NO<sub>x</sub> major source threshold (see the definition section of 6NYCRR Part 231-2). Volatile Organic Compounds (VOC) are being emitted in amounts that are less than the major source threshold. The upgrade of the facility involves the construction of new air pollution sources that constitute a significant source project. A significant source causes Maximum Annual Potential Emissions or MAP (of any of the major pollutants: NO<sub>x</sub>, CO, VOC or Particulate Matters) that exceed the existing facility's MAP for the corresponding major pollutant or pollutants.

NYCDEP, as owner and operator of the Newtown Creek WPCP has conducted a New Source Review (NSR) Applicability Determination for NO<sub>x</sub>. 6NYCRR Part 231-2 (NSR) and its air pollutant control requirements such as LAER (Lowest Achievable Emission Rate) could apply to the new project being constructed at Newtown Creek WPCP if the net emission increase (NEI) for any major pollutant exceeds the Significant Source Project Net Emission Increase Threshold (SNEIT) for the major pollutant. In the case of NO<sub>x</sub> the Net Emission Source Increase was 23.2 TPY, which is below the NO<sub>x</sub> SNEIT of 25 TPY.

For compliance with NSR, the facility wide NO<sub>x</sub> emission will be capped at 45.1 tons per year and the VOC emission rate will be less than 25 tons per year.

**Permit Structure and Description of Operations**

The Title V permit for NEWTOWN CREEK WASTEWATER TREATMENT PLANT is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

NEWTOWN CREEK WASTEWATER TREATMENT PLANT is defined by the following emission unit(s):

Emission unit 4RESID - This emission unit consists of the Central Residuals process which takes place in the central residual building. The process includes the following areas: screening room, channels and

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compactor, the sludge screening areas, the grit cyclone and classifier areas, the skimmings concentrator areas and the disposal areas and the splitter box. The odor control system consists of 14 carbon adsorbers (ROCU1 THRU ROC14) that discharge through a common single exhaust stack.

Emission unit 4RESID is associated with the following emission points (EP):

4RHOC

Process: SCU is located at Building RESID - The SCU process takes place in the central residual building. The process includes the following areas: screening room, channels and compactor, the sludge screening areas, the grit cyclone and classifier areas, the skimmings concentrator areas, the disposal areas and the splitter box. The odor control system consists of 14 carbon adsorbers that discharge through a common single exhaust stack. The total throughput is based on the designed ventilation air flow capacity of the activated carbon adsorption vessels. This process is at the Central Residual Building.

Emission unit 5MISCS - This emission unit is for the facility's non-exempt chemical storage and fuel storage tanks, that exceed the 10000 gal exempt threshold.

The CST process includes a total of 4 (four) non-exempt 18190 hypochlorite tanks.

There are also 5 non-exempt Diesel fuel tanks, 4 x 20,000 gallons and 1 x 12,000 gallon tanks.

As part of the plant's upgrade plan, DEP installed two x 18190 gallon tanks to store sodium bisulfite for dechlorination process.

Process: CST is located at Building OUTDOOR - This process includes the plant's Chemical Storage Tanks (CST) that exceeds the 10,000 gal exempt threshold. There are a total of six (6) tanks for Hypochlorite storages: 6X16,800 gallon Hypochlorite storage tanks. There are also five (5) nonexempt diesel storage tanks: 4 x 20,000 gallon diesel tanks and 1 x 12,000 gallon diesel tank.

Emission unit 6FLARE - This unit consists of the plant's four new enclosed waste sludge digester gas burners installed as part of the upgrade to flare excessive sludge digester gas.

As part of New York City's anti-global warming effort to reduce Green House Gas ("GHG") emissions, the plant will install a system for collecting and treating digester gas from the plant and injecting the treated methane gas into the National Grid natural gas distribution system. The methane gas would be consumed by National Grid's New York City customers. This separation system includes a thermal oxidizer to destroy those unwanted constituents (captured VOCs, H<sub>2</sub>S, and other separated constituents) removed from the plant's digester gas.

The thermal oxidizer is going to be placed near the WWTP's existing waste gas burner #1.

Emission unit 6FLARE is associated with the following emission points (EP):

6BUR1, 6BUR2, 6BUR3, 6BUR4, OXIDS

Process: BUG is located at Building NMAIN - This process is for four Varec 249, 46 mmBTu/hr enclosed waste gas burners to burn the excessive sludge digester gas produced at the WWTP.

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The total throughput of the waste burner operation is based on the estimated digester gas production at the WWTP.

Process: OXD is located at Building NMAIN - This process includes a thermal oxidizer to destroy those unwanted constituents (captured VOCs, H<sub>2</sub>S, and other separated constituents) removed from the plant's digester gas by a separation system. The thermal oxidizer is located near the WWTP's existing waste gas burner #1. Waste heat from the oxidizer flue gas will be captured to further reduce boiler use at the plant.

Emission unit 7GTURB - This unit consists of four 5 MW emergency gas turbines and two black start engines. The emergency turbine generators are used in the event of emergency, such as service disruption or a black out and may be operated for participation in the New York State Demand Reduction Program. The emergency turbines would provide backup power to the plant during those times and will be exercised on a routine basis. The two black start engines are used to start the turbines and will be operated for routine maintenance.

Emission unit 7GTURB is associated with the following emission points (EP):

BSE1A, BSE1B, BSE2A, BSE2B, TURB1, TURB2, TURB3, TURB4

Process: ENG is located at Building NMAIN - The plant has 2 black start internal combustion engine generators that will be used to kick start the emergency turbines. For testing, these units are expected to operate for routine testing and maintenance and to start the turbines. Fuel is diesel.

Process: TRB is located at Building NMAIN - As part of track 3 upgrade, four 5MW turbine generators are installed and operated at the plant. The emergency turbine generators are used in the event of emergency, such as service disruption or a black out and may be operated for participation in the New York State Demand Reduction Program. The emergency turbines would provide backup power to the plant during those times. Fuel is diesel.

Emission unit 1BLERS -

This emission unit consists of the plant's boilers for both the space and sludge heating demand. The plant has three Cleaver Brooks/CB 700-400-15 gas-fired steam boilers installed in 1998 and each rated 16.75 mmbtu/hr. These three steam boilers fire natural gas and one boiler is operated continuously throughout the year and two boilers will be operated for peak heating demand during winter. These three steam boilers will be removed after the final upgrade is completed.

The ongoing upgrade has installed nine 29.5 mmbtu/hr Cleaver Brooks/CB-LE hot water boilers. These hot water boilers fire sludge digester gas and natural gas.

Emission unit 1BLERS is associated with the following emission points (EP):

1BLR1, 1BLR2, 1BLR3, 1BLR4, 1BLR5, 1UBLR

Process: BLR is located at Building NMAIN - This process is for the new nine 30.6 mmBtu/hr Cleaver

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Brooks CB 700-750-125 HW hot water boilers to fire gaseous fuel (sludge digester gas or natural gas or blend). Once the upgrade is complete these new boilers will normally fire sludge digester gas. At times that sludge digester gas is unavailable, these boilers will fire natural gas or blend. Up to eight of these new boilers may be operated at a time for peak demand during winter. At all times, at least one boiler is kept offline as standby.

Process: IUB is located at Building MAIN -

This process is for the three existing 16.75 mmBtu/hr Cleaver Brooks (CB 700-400-15) boilers that fire natural gas. One boiler is continuously operated throughout the year and two boilers are operated for peak heating demand during winter. At all times, at the least one boiler is kept offline as standby.

Emission unit 2WWTRE - This unit consists of the plant's wastewater treatment processes. These processes include the existing Headworks (HW), Aeration and Final Settling process (AFS) and chlorine contact (CCT) with dechlorination. The on going interim upgrade has demolished and removed the old Grit Chambers process (GC) and constructed four new grit buildings. Odorous air from the new grit building are treated through the North and Central Odor Control System. Other than the headworks, all processes are all outdoor and in large tanks. These processes also include the chlorine contact disinfection process with dechlorination to be constructed under the plant's final upgrade. Under the plant's interim upgrade and the final upgrade construction, these processes will be reconstructed and new processes will be added to the plant. Activated carbon adsorption vessels either have been installed or have been scheduled to be installed. Emissions from these processes depend on the concentrations of pollutants of concern in the plant's influent of which the plant does not have complete control. Therefore, the emissions are based on currently available data.

Two packaged carbon adsorber odor control systems have been added to the plant's headworks process to control the odors at the Manhattan uptake shaft and the influent splitter box. Under the final plant upgrade, the emission from the splitter box will be treated by the Central Residual Odor Control System under emission unit 4-RESID. A new odor control system is installed at the Main Building that has four carbon adsorber tanks.

Emission unit 2WWTRE is associated with the following emission points (EP):

2FBAY, 2NCOC, 2SOOC, ISBOC, MBOCA, MBOCB, MBOCC, MBOCD, MUSOC

Process: 0AS is located at Building OUTDOOR - THIS IS THE PLANT'S MODIFIED ACTIVATED SLUDGE (AS) SECONDARY TREATMENT PROCESS CONSISTING OF 24 MODIFIED DIFFUSED AIR ACTIVATED SLUDGE AERATION TANKS. IN THIS PROCESS, THE EFFLUENT FROM THE PRIMARY TREATMENT SECTION CONTAINING MAINLY COLLOIDAL AND DISSOLVED SOLIDS (BOTH INORGANIC AND ORGANIC) ARE TREATED BIOLOGICALLY BY UTILIZING MANY DIFFERENT TYPES OF MICROORGANISMS IN A CONTROLLED ENVIRONMENT. LARGE AMOUNTS OF AIR ARE PUMPED INTO AERATION TANKS MIXING THE WASTEWATER AND SLUDGE RETURNED FROM THE PLANT'S FINAL SETTLING TANKS. THIS SPEEDS THE GROWTH OF THE OXYGEN-USING BACTERIA AND OTHER TINY ORGANISMS THAT ARE NATURALLY PRESENT IN THE SEWAGE. THESE BENEFICIAL MICROORGANISMS CONSUME MOST OF THE REMAINING ORGANIC POLLUTANTS PRODUCING HEAVIER PARTICLES WHICH SETTLE OUT LATER IN THE FINAL SETTLING TANKS.

THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW.



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THE AERATION TANKS AND THE FINAL SETTLING TANKS WEIRS ARE COVERED AND THE ODORS ARE CONTROLLED USING CARBON ADSORPTION TANKS.

Process: OCC is located at Building OUTDOOR -

Process: OHW is located at Building OUTDOOR - THIS PROCESS IS THE PLANT'S WASTEWATER PRE TREATMENT HEAD WORKS (HW) PROCESSES INCLUDING FOREBAY, BAR SCREENING, AFTERBAY, INFLUENT SPLIT BOX AND ITS WEIR. THE BAR SCREENS CONSIST OF UPRIGHT BARS SPACED ONE TO THREE INCHES APART. THE PRIMARY PURPOSE OF THE BAR SCREEN IS TO REMOVE LARGE PIECES OF TRASH (RAGS, STICKS, NEWSPAPER, CANS, ETC.,) FOR THE PROTECTION OF THE MAIN SEWAGE PUMP AND OTHER EQUIPMENT. ODORS FROM THIS PROCESS ARE CONTROLLED BY 4 ODOR CONTROL UNITS (M10C1, M10C2, M21C1, M20C2) IN THE MAIN BUILDING SCREEN WING.

THE MANHATTAN UPTAKE SHAFT AND THE INFLUENT SPLITTER BOX ARE EQUIPPED WITH TWO PACKAGED CARBON ADSORBER ODOR CONTROL SYSTEMS (MUSOC, ISBOC) TO CONTROL ODORS AT THE PLANT'S HEADWORKS PROCESS.

THE TOTAL THROUGHPUT IS BASED ON DRY WEATHER FLOW.

Emission unit 3NSLUD - This emission unit consists of the operation in the new Digestion Building, the Service Building and the digester gas holding tank (previously listed under emission unit 3-SLUDG). The Digestion Building will include 8 new anaerobic digesters and two new sludge storage tanks. The Service Building houses the odor control system (SBOC1 and SBOC2) that will be used to control the odors from the digesters and the sludge storage tanks.

This emission unit also contains an organic food waste to energy project. One of the WWTP's decommissioned thickener tanks was converted to a 150,000 gallon food waste storage tank which will mix the macerated food waste to feed to a digester. A 1,200 CFM two-stage carbon odor control system (FWOC1) was installed to treat odors from the food waste storage tank.

The emission unit 3-SLUDG is removed from this renewal 2 application since sludge gravity thickeners and sludge storage tanks are either out of service or had been removed as part of the plant's upgrade plan.

Emission unit 3NSLUD is associated with the following emission points (EP):

3NAD1, FWOCA

Process: DGH is located at Building SLUDGE - THIS PROCESS IS THE DIGESTER GAS HOLDING (DGH) TANK. THIS TANK HAS NO ADD ON EMISSION CONTROL BUT ITS EMISSION COULD BE IGNORED BECAUSE THE TANK HAS NO ACTIVE EMISSION POINTS AND OR POLLUTANT RELEASES. THE TOTAL THRUPUT IS ESTIMATED BASED ON THE HISTORICAL OPERATION DATA.

Process: NAD is located at Building SERVICE - THE NEW SLUDGE ANAEROBIC DIGESTION (NAD) PROCESS CONSISTS OF 8 NEW DIGESTERS AND 2 NEW SLUDGE STORAGE TANKS. THE ODORS FROM THE 8 DIGESTER OVERFLOW BOXES AND THE 2 SLUDGE STORAGE TANKS WILL BE CONTROLLED USING A CARBON ADSORBER SYSTEM. THE ODOR NORMAL OPERATIONS, ONE UNIT WILL BE OPERATING AND ONE UNIT WILL BE ON STANDBY.



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**Title V/Major Source Status**

NEWTOWN CREEK WASTEWATER TREATMENT PLANT is subject to Title V requirements. This determination is based on the following information:

Facility has PTE emissions of a major source.

**Program Applicability**

The following chart summarizes the applicability of NEWTOWN CREEK WASTEWATER TREATMENT PLANT with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

**NOTES:**

**PSD** Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NSR** New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NESHAP** National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

**MACT** Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

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**NSPS** New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

**Title IV Acid Rain Control Program** (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

**Title VI Stratospheric Ozone Protection** (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

**SIP** State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

**SIC Code**

**Description**

4952 9511	SEWERAGE SYSTEMS AIR, WATER & SOLID WASTE MANAGEMENT
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**SCC Codes**

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

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SCC Code	Description
1-03-007-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - PROCESS GAS
2-01-001-01	POTW DIGESTER GAS-FIRED BOILER INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL)
2-02-004-02	Turbine INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE
3-01-830-01	Dual Fuel (Oil/Gas) CHEMICAL MANUFACTURING CHEMICAL MANUFACTURING - GENERAL PROCESSES Storage/Transfer
5-01-007-07	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-31	POTW: HEADWORKS SCREENING SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-60	POTW: DIFFUSED AIR ACT SLUDGE SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-71	POTW: CHLORINE CONTACT TANK SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-89	POTW: GRAVITY SLUDGE THICKENER SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT
5-01-007-99	SLUDGE DIGESTER GAS FLARE SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - SEWAGE TREATMENT OTHER NOT CLASSIFIED

**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents

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a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
000079-34-5	1,1,2,2-TETRACHLOROETHANE	5000			
000107-06-2	1,2-DICHLOROETHANE	5000			
000108-38-3	1,3 DIMETHYLBENZENE	5000			
000108-10-1	2-PENTANONE, 4-METHYL	5000			
000071-43-2	BENZENE	5000			
000098-82-8	BENZENE, (1-METHYLETHYL)	5000			
000106-46-7	BENZENE, 1,4-DICHLORO-	5000			
000095-47-6	BENZENE, 1,2-DIMETHYL	5000			
000075-25-2	BROMOFORM	5000			
000630-08-0	CARBON MONOXIDE			35859	
000056-23-5	CARBON TETRACHLORIDE	5000			
000108-90-7	CHLOROBENZENE	5000			
000067-66-3	CHLOROFORM			3822	
000075-09-2	DICHLOROMETHANE			1229	
000071-55-6	ETHANE, 1,1,1-TRICHLORO	5000			
000079-00-5	ETHANE, 1,1,2-TRICHLORO	5000			
000075-34-3	ETHANE, 1,1-DICHLORO-	5000			
000075-00-3	ETHANE, CHLORO	5000			
000075-35-4	ETHENE, 1,1-DICHLORO	5000			
000100-41-4	ETHYLBENZENE	5000			
000050-00-0	FORMALDEHYDE			37	
007783-06-4	HYDROGEN SULFIDE	5000			
007439-92-1	LEAD	5000			
000074-83-9	METHYLBROMIDE	5000			
000074-87-3	METHYLCHLORIDE	5000			
000091-20-3	NAPHTHALENE	5000			
0NY210-00-0	OXIDES OF NITROGEN	90200		49555	
0NY075-00-0	PARTICULATES			14248	
000127-18-4	PERCHLOROETHYLENE			3095	
0NY075-00-5	PM-10			14248	
000078-87-5	PROPANE, 1,2-	5000			

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	DICHLORO		
007704-34-9	SULFUR	25747	25747
007446-09-5	SULFUR		25747
	DIOXIDE		
000108-88-3	TOLUENE		11200
0NY100-00-0	TOTAL HAP	16320	16320
000079-01-6	TRICHLOROETHY		265
	LENE		
000075-01-4	VINYL	5000	
	CHLORIDE		
0NY998-00-0	VOC	16320	16320
000106-42-3	XYLENE, PARA-	5000	

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)**

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

**Item B: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item C: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item D: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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**Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)**

This permit does not convey any property rights of any sort or any exclusive privilege.

**Item H: Severability - 6 NYCRR Part 201-6.4(a)(9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item I: Permit Shield - 6 NYCRR Part 201-6.4(g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item J: Reopening for Cause - 6 NYCRR Part 201-6.4(i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

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ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item K: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item L: Federally Enforceable Requirements - 40 CFR 70.6(b)**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit

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conditions for all facilities in New York State.

- (a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
  - (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
  - (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
- (c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item\_02

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6**  
**NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**Regulatory Analysis**

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
FACILITY	ECL 19-0301	49	Powers and Duties of the Department with respect to air pollution control
1-BLERS	40CFR 60-Dc.48c(a)	38	Reporting and



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7-GTURB	40CFR 60-Dc.48c(a)	45	Recordkeeping Requirements. Reporting and Recordkeeping Requirements.
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	50	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	21, 32, 33	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(4)	15	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4(a)(8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4(c)(2)	4	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4(c)(3)(ii)	5	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(d)(4)	22	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.4(f)(6)	17	Off Permit Changes
FACILITY	6NYCRR 201-7	23, 34	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1	24, 25	Emission Testing, Sampling and Analytical Determinations
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements -

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FACILITY	6NYCRR 211.1	51	record keeping requirements.
FACILITY	6NYCRR 211.2	26, 27, 28, 29	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	9	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 225-1.2(h)	30	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.6(f)	31	Sulfur-in-Fuel Limitations
7-GTURB/-/ENG	6NYCRR 227.2(b)(1)	46	Excess Emission Reports
7-GTURB/-/TRB	6NYCRR 227.2(b)(1)	48	Particulate emissions.
1-BLERS	6NYCRR 227-1.3(a)	36	Particulate emissions.
6-FLARE	6NYCRR 227-1.3(a)	41	Smoke Emission Limitations.
7-GTURB	6NYCRR 227-1.3(a)	44	Smoke Emission Limitations.
1-BLERS	6NYCRR 227-2.4(d)	37	Smoke Emission Limitations.
1-BLERS/-/BLR	6NYCRR 227-2.4(d)	39	Small boilers, small combustion turbines, and small stationary internal combustion engines.
7-GTURB/-/TRB	6NYCRR 227-2.4(e)(1)	47	Small boilers, small combustion turbines, and small stationary internal combustion engines.
6-FLARE	6NYCRR 227-2.4(g)	42	Simple cycle combustion turbines.
FACILITY	6NYCRR 257-10	52	Other combustion installations.
			Air Quality Standards - Hydrogen Sulfide

**Applicability Discussion:**

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4

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This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

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6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.4 (f) (6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calENdar year.

6 NYCRR 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

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6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68

This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

**Facility Specific Requirements**

In addition to Title V, NEWTOWN CREEK WASTEWATER TREATMENT PLANT has been determined to be subject to the following regulations:

40 CFR 60.48c (a)

This regulation requires the owner and operator of each affected facility to submit notification of the date of construction or reconstruction, anticipated startup, and actual startup of the facility. The notification must include the following information:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

6 NYCRR 225-1.2 (h)

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Sulfur-in-fuel limitation for the firing of distillate oil on or after July 1, 2016.

6 NYCRR 225-1.6 (f)

This citation requires subject facilities to submit excess emissions reports to the Department.

6 NYCRR 227.2 (b) (1)

This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. The rule establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for any oil fired stationary combustion installation.

6 NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 227-2.4 (d)

This section includes NOx RACT requirements for small boilers, small combustion turbines, and small stationary internal combustion engines.

6 NYCRR 227-2.4 (e) (1)

Presumptive NOx RACT emission limits for simple cycle combustion turbines.

6 NYCRR 227-2.4 (g)

This subdivision establishes NOx RACT for emission sources that are subject to this rule but not specifically regulated under the other source categories of this rule.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is

6 NYCRR Subpart 202-1

This subpart of Part 202 establishes the general criteria for verifying emissions by means of emissions sampling, testing and associated analytical determinations.

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6 NYCRR Subpart 257-10

257 is for the ambient air monitoring

**Compliance Certification**

**Summary of monitoring activities at NEWTOWN CREEK WASTEWATER TREATMENT PLANT:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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1-BLERS	38	record keeping/maintenance procedures
7-GTURB	45	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
1-BLERS	35	work practice involving specific operations
6-FLARE	40	work practice involving specific operations
7-GTURB	43	work practice involving specific operations
FACILITY	24	monitoring of process or control device parameters as surrogate
FACILITY	25	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
FACILITY	27	record keeping/maintenance procedures
FACILITY	28	monitoring of process or control device parameters as surrogate
FACILITY	29	record keeping/maintenance procedures
FACILITY	30	work practice involving specific operations
FACILITY	31	record keeping/maintenance procedures
7-GTURB/-/ENG	46	intermittent emission testing
7-GTURB/-/TRB	48	intermittent emission testing
1-BLERS	36	monitoring of process or control device parameters as surrogate
6-FLARE	41	monitoring of process or control device parameters as surrogate
7-GTURB	44	monitoring of process or control device parameters as surrogate
1-BLERS	37	record keeping/maintenance procedures
1-BLERS/-/BLR	39	intermittent emission testing
7-GTURB/-/TRB	47	intermittent emission testing
6-FLARE	42	intermittent emission testing
FACILITY	52	record keeping/maintenance procedures
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**Basis for Monitoring**

Basis of monitoring:

Part 225: Fuel in sulfur monitoring

Part 227: Opacity monitoring

Part 227: Particulate monitoring

Part 227: Nox monitoring